

13481

Letter Contract No. HF-6701
Amendment No. 4

General Precision Laboratory Incorporated
63 Bedford Road
Pleasantville, New York

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Attention: [redacted]

Gentlemen:

1. Please refer to Letter Contract No. HF-6701 between the United States Government and the General Precision Laboratory Incorporated accepted by the Contractor on August 5, 1956, as heretofore amended.

2. Letter Contract No. HF-6701, as amended, is hereby amended as follows:

(a) Add the following new item to Exhibit "A", Revision 1, dated 6 December 1956:

<u>Item No.</u>	<u>Description</u>	<u>Amount</u>
13	Conduct a five (5) week training course for Government personnel at Contractor's facilities in accordance with Appendix I attached hereto and made a part of this Amendment No. 4.	\$4,532.22

DELIVERY SCHEDULE

<u>Item No.</u>	<u>Description</u>
13	Training Course shall start on or about 1 April 1957 and shall last five (5) weeks."

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(b) On page 2 of Exhibit "A", Revision 1 dated 6 December 1956 delete the figure [redacted] and substitute the figure [redacted] following the sentence reading "Total Estimated Contract Price F.O.B. Pleasantville, New York."

DOCUMENT NO. 41

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(e) In paragraph 5, Authority to Obligate Funds, and Subcontracts of Letter Contract No. HF-6701, as amended, the amount of [redacted] is deleted and the amount of [redacted] is substituted therefor.

3. This amendment increases the previously authorized obligation by \$4,532.22. All other terms and conditions of Letter Contract No. HF-6701, as amended, remain unchanged.

4. Please indicate your acceptance of this Amendment No. 4 by executing the original and two copies thereof. Return the original and one fully executed copy to the undersigned and retain one executed copy for your files.

Yours very truly,
THE UNITED STATES OF AMERICA

By:

Contracting Officer

ACKNOWLEDGED AND ACCEPTED
THIS 25 DAY OF March, 1957.
GENERAL PRECISION LABORATORY, INCORPORATED

BY:

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PROPOSED COURSE

1. Personnel Required: One instructor will be utilized on a full-time basis to implement the proposed course; a second instructor will be required to assist during the preparation period.

a. Preparation Period

- 1 instructor - three weeks
- 1 instructor - two weeks

b. Course Period

- 1 instructor - five weeks

2. Prerequisites for Admission to the course: Students should be experienced radar repairmen, possessing skill in the use of standard radar test equipment. The proposed course outline is tentative, and is subject to improvised change contingent on examination of the entering students' qualifications.

3. Purpose of the Course: To provide, for maintenance personnel, a familiarization with RADAR Theory of operation, tests, and adjustments. The proposed course is not a maintenance training course.

4. Duration of the Course: The course will be 5 academic weeks in length. Instruction is to be on the basis of 6 hours/day, 5 days/week. The total course length is 150 hours.

5. Starting Date: April 1, 1957.

APPENDIX 1 to
Amendment No. 4 to
Letter Contract
No. HF-6701

Exhibit A - Proposed Course

6. Maximum Number of Students: 5

7. Tentative Outline of Instruction:

<u>Week</u>	<u>Day</u>	<u>Material</u>
1	1	A. Registration
		B. Introduction to Basic Doppler Concepts
		1. Definitions
		2. Applications
2		3. Microwave Doppler Measurements (CW, Pulsed Coho, Janus)
3		4. Antenna Development
		(a) Beam Pattern
		(b) Nature of Received Signal
		C. Functional Block Diagram
		1. Antenna-Receiver-Transmitter
4		(a) Transmitter
		(b) Antenna
5		(c) Receiver
		(d) Stabilizer
		2. Frequency Tracker, Control, Indicator
6		(a) Receiver Parts
		(b) Ground Speed Sensing
		(c) Drift Sensing
		(d) Slewing

Exhibit A - Proposed Course

<u>Week</u>	<u>Day</u>	<u>Material</u>
1	7	B. System Interconnections
		(a) PG-204A
		(b) PG-210A
		(c) Others
2	8	D. A-E-T Circuit Analysis
	9	1. Stabilizer
	10	2. Transmitter
	11	3. Duplexer and Directional Coupler
	12	4. Checks, Adjustment and Troubleshooting
	13	5. Antenna
	14	6. Receiver
	15	7. Checks, Adjustments and Troubles
	16	E. Evaluation
	17	F. Frequency Tracker Circuit Analysis
	18, 19, 20	1. Regenerator
		2. Main Loop
		3. Vg Servo and Indicator
		4. GPS/Knot - Slope - Zero Adjustments
		5. Azimuth Servo
		6. Drift Servo (Antenna and Indicator)
		7. S/N Detector
		8. Main Frame and Power Supplies
		9. Checks, Adjustment and Troubles

Exhibit A - Proposed Course

<u>Week</u>	<u>Day</u>	<u>Material</u>
		Q. Special Considerations
4	21	1. Tools and Test Equipment 2. Interconnections 3. Installation Problems 4. Troubleshooting Procedures
	22, 23, 24	H. Troubleshooting
	25.	I. Evaluation